

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A ~~The~~ throw-away tip ~~of substantially flat plate shape comprising two principal surfaces, that provide rake faces and seating surfaces, and side surfaces that provide relief faces, with cutting edges formed on the intersects of the principal surfaces and the relief faces so that the throw-away tip can be used on both sides,~~

~~— wherein each of said principal surfaces comprises a land surface provided along the periphery thereof, a central surface provided on the inside of said land surface, a recess interposed between the land surface and the central surface, and at least one protrusion that extends from the central surface toward said land surface; and at least the top surface of said protrusion and said land surface serve as the contact surface when said throw-away tip is attached to a tool holder according to claim 8, wherein the top surface of said protrusion and said land surface have the same height.~~

2. (Canceled)

3. (Currently amended) The throw-away tip according to claim ~~[[1]]~~ 8, wherein the top surface of said protrusion is acute-angled at the distal end thereof.

4. (Currently amended) The throw-away tip according to claim ~~[[1]]~~ 8, wherein one of said protrusions extends toward a corner of said throw-away tip and one or more other protrusion extends midway between two corners.

5. (Currently amended) The throw-away tip according to claim ~~[[1]]~~ 8, wherein the ratio (L_2/L_1) of the distance L_2 from the center of said throw-away tip to

the distal end of said protrusion to the distance L_1 from the center of said throw-away tip to the periphery of the throw-away tip is in a range from 0.7 to 0.95.

6. (Currently amended) The throw-away tip according to claim ~~[[1]]~~ 8, wherein the width of said land surface is in a range from 0.2 to 0.5 mm.

7. (Currently amended) The throw-away tip according to claim ~~[[1]]~~ 8, wherein said recess comprises three curved surfaces: a first curved surface located on the side of said land surface, a second curved surface that continues to said first curved surface and a third curved surface that continues to said second curved surface and is located on the central surface side.

8. (Previously presented) A throw-away tip of substantially flat plate shape comprising two principal surfaces, that provide rake faces and seating surfaces, and side surfaces that provide relief faces, with cutting edges formed on the intersects of the principal surfaces and the relief faces so that the throw-away tip can be used on both sides,

wherein each of said principal surfaces comprises a land surface provided along the periphery thereof, a central surface provided on the inside of said land surface, a recess interposed between the land surface and the central surface, and at least one protrusion that extends from the central surface toward said land surface; and at least the top surface of said protrusion and said land surface serve as the contact surface when said throw-away tip is attached to a tool holder, and

wherein the ratio of areas of said central surface and said land surface in said principal surface is in a range from 50 to 90%.

9. (Previously presented) A throw-away tip of substantially flat plate shape comprising two principal surfaces, that provide rake faces and seating surfaces, and side surfaces that provide relief faces, with cutting edges formed on the intersects of

the principal surfaces and the relief faces so that the throw-away tip can be used on both sides,

wherein each of said principal surfaces comprises a land surface provided along the periphery thereof, a central surface provided on the inside of said land surface, a recess interposed between the land surface and the central surface, and at least one protrusion that extends from the central surface toward said land surface; and at least the top surface of said protrusion and said land surface serve as the contact surface when said throw-away tip is attached to a tool holder, and

wherein the distance between the distal end of said protrusion, that is located at the same height as said central surface, and said land surface is 0.5 mm or less and height of the distal end of said protrusion decreases by an angle in a range from 10 to 60° toward said land surface.

10. (Currently amended) A throw-away tip of substantially flat plate shape comprising two principal surfaces, that provide rake faces and seating surfaces, and side surfaces that provide relief faces, with cutting edges formed on the intersects of the principal surfaces and the relief faces so that the throw-away tip can be used on both sides,

wherein each of said principal surfaces comprises a land surface provided along the periphery thereof, a central surface provided on the inside of said land surface, a recess interposed between the land surface and the central surface, and at least one protrusion that extends from the central surface toward said land surface; and at least the top surface of said protrusion and said land surface serve as the contact surface when said throw-away tip is attached to a tool holder, and

wherein the throw-away tip has a linkage portion that connects at least one of said protrusions and the side edge of said land surface,

wherein the top surface of said protrusion and said land surface have the same height.

11. (Original) The throw-away tip according to claim 10,

wherein a length a of one side edge of said principal surface and a distance c between a corner having an angle of 90° or less and said linkage portion satisfy a relationship: $0.25a \leq c \leq 0.75a$.

12. (Currently amended) The throw-away tip according to claim ~~[[10]]~~ 11, wherein said principal surface has diamond shape.

13. (Currently amended) ~~The A throw-away tip according to claim 10 of substantially flat plate shape comprising two principal surfaces, that provide rake faces and seating surfaces, and side surfaces that provide relief faces, with cutting edges formed on the intersects of the principal surfaces and the relief faces so that the throw-away tip can be used on both sides,~~

wherein each of said principal surfaces comprises a land surface provided along the periphery thereof, a central surface provided on the inside of said land surface, a recess interposed between the land surface and the central surface, and at least one protrusion that extends from the central surface toward said land surface; and at least the top surface of said protrusion and said land surface serve as the contact surface when said throw-away tip is attached to a tool holder, and

wherein the throw-away tip has a linkage portion that connects at least one of said protrusions and the side edge of said land surface,

wherein a length a of one side edge of said principal surface and a width d of said linkage portion satisfy a relationship: $0.5 \text{ mm} \leq d \leq (a/3)$.

14. (Original) A throw-away tip of substantially flat plate shape, comprising two principal surfaces, that provide rake faces and seating surfaces, and side surfaces that provide relief faces, with at least the corner portions of the intersects

of the principal surfaces and the relief faces are used as cutting edges such that the throw-away tip can be used on both sides,

wherein each of said principal surfaces comprises a land surface provided at least along the periphery thereof that forms said cutting edge, a central surface provided on the inside of said land surface, and a recess interposed between the land surface and the central surface;

when one of said principal surfaces is the seating surface, both the central surface and the land surface of this principal surface serve as the contact surface; and

said recess that continues from said land surface in said corner portion is dimensioned in a range from 0.1 mm to 0.6 mm in recess depth (h_1), from 0.7 mm to 2 mm in recess width (w), from 0.3 mm to 1.5 mm in width (w_1) from the land surface side to the bottom of the recess, and from 0.5 mm to 1.7 mm in width (w_2) from the bottom of said recess to said central surface.

15. (Original) The throw-away tip according to claim 14, wherein said recess that continues from said land surface in said corner portion comprises three curves; a first curve (10") having radius of curvature (r_1) in a range from 12 mm to 18 mm, a second curve (11") having radius of curvature (r_2) in a range from 0.1 mm to 0.6 mm and a third curve (12") having radius of curvature (r_3) not smaller than 50 mm, that are connected smoothly in this order from said land surface side.

16. (Original) The throw-away tip according to claim 14, wherein a linkage portion is provided that connects said land surface and said central surface at a position of the periphery of said principal surface which is not used as a cutting edge, thereby providing a contact surface.

17. (Original) The throw-away tip according to claim 14, wherein at least one protrusion that extends toward said land surface is provided on said central surface.

18. (Original) The throw-away tip according to claim 17, wherein said protrusion is formed to have a sharp point.

19. (Original) The throw-away tip according to claim 17, wherein one of said protrusions extends toward said corner portion.

20. (Original) The throw-away tip according to any one of claims 4 through 6, wherein both sides of said protrusion have such a configuration as to slope downward and then rise toward said land surface.

21. (Original) The throw-away tip according to claim 14, wherein a ratio (L_2/L_1) of the distance L_2 from the center of said throw-away tip to the distal end of said protrusion to the distance L_1 from the center of said throw-away tip to the periphery of the throw-away tip is in a range from 0.7 to 0.95.

22. (Original) The throw-away tip according to claim 14, wherein a ratio of areas of said central surface and said land surface in said principal surface is in a range from 50 to 90%.

23. (Original) The throw-away tip according to claim 14, wherein a width of said land surface is in a range from 0.2 to 0.5 mm.